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RAW SEQUENCE LISTING   DATE: 10/17/2003
PATENT APPLICATION: **US/10/070,882A**   TIME: 16:45:41

Input Set : **A:\Sequence.txt**
Output Set: **N:\CRF4\10172003\J070882A.raw**

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 3 <110> APPLICANT: Titball, Richard L.
 4        Bullifent, Helen L.
 6 <120> TITLE OF INVENTION: Recombinant Microorganisms
 8 <130> FILE REFERENCE: 41577/270459
10 <140> CURRENT APPLICATION NUMBER: US 10/070,882A
11 <141> CURRENT FILING DATE: 2002-03-11
13 <150> PRIOR APPLICATION NUMBER: GB 9921275.5
14 <151> PRIOR FILING DATE: 1999-09-10
16 <150> PRIOR APPLICATION NUMBER: PCT/GB00/03402
17 <151> PRIOR FILING DATE: 2000-09-06
19 <150> PRIOR APPLICATION NUMBER: GB 0017000.1
20 <151> PRIOR FILING DATE: 2000-07-12
22 <160> NUMBER OF SEQ ID NOS: 12
24 <170> SOFTWARE: PatentIn version 3.2
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 196
28 <212> TYPE: DNA
29 <213> ORGANISM: Salmonella typhimurium
31 <400> SEQUENCE: 1
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34 gacaggtttc ccgactggaa agcgggcagt gagcgcaacg caattaatgt gagttagctc       120
36 actcattagg cacccccaggc tttacactttt atgcttccgg ctcgtatgtt gtgtggaatt    180
38 gtgagcggat aacaat                                                       196
41 <210> SEQ ID NO: 2
42 <211> LENGTH: 139
43 <212> TYPE: DNA
44 <213> ORGANISM: Salmonella typhimurium
46 <400> SEQUENCE: 2
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49 gtgactattt gtctggttta ttaactgttt atccccaaag caccataatc aacgctagac       120
51 tgttcttatt gttaacaca                                                    139
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55 <211> LENGTH: 715
56 <212> TYPE: DNA
57 <213> ORGANISM: Salmonella typhimurium
59 <400> SEQUENCE: 3
60 gttaaccact cttaataata atgggtttta tagcgaaata gactttttta tcgcgtgttc        60
62 aatatttgcg ttagttatta ttttttttgga atgtaaattc tctctaaaca caggtgatat       120
64 ttatgttgga attgtggtgt tgattctatt cttataatat aacaagaaat gttgtaactg       180
66 atagatatat taaaagatta aatcggagcg ggaataaagc gtgctaagca tcatcgtgaa       240
68 tatgattaca gcgcctgcga tggcatataa ccgtattgcg gatggagcgt cacgtgagga       300
70 ctgtgaagca caatgcgata tgttctgatt atatggcgag tttgcttaat gacatgtttt       360
72 tagccgaacg gtgtcaagtt tcttaatgtg gttgtgagat tttctctttta aatatcaaaa     420
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 74 tgttgcatgg gtgatttgtt gttctatagt ggctaaacac tttatggttt ctgttaaata      480
 76 tatatgcgtg agaaaaatta gcattcaaat ctataaaagt tagatgacat tgtagaaccg      540
 78 gttacctaaa tgagcgatag agtgcttcgg tagtaaaaat atctttcagg aagtaaacac      600
 80 atcaggagcg atagcggtga attattcgtg gttttgtcga ttcggcatag tggcgataac      660
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 91 taaacagaca ttcagaagtg aatgacggta ataaataaag ttaatgatga tagcggtcac       60
 93 tattttagtt gcgaatgaag attctgtttt atcattcagt gctatgaatt tcatcaattt      120
 95 aacccgttga ttttaaaagt ttcgtgaaat atattttgtc tatttgtgct tatttttact      180
 97 tgattttgc tttaaaaaag ttccgtaaaa ttcatatttt gaaacatcta tatagataac       240
 99 tgtaacatct taaaagtttt agtatcatat tcgtgttgga ttattctgta tttttgcgga      300
101 gaatggactt gccgactggt taatgagggt taaccagtaa gcagtggcat aaaaaagcaa      360
103 taaaggcata t                                                           371
106 <210> SEQ ID NO: 5
107 <211> LENGTH: 36
108 <212> TYPE: DNA
109 <213> ORGANISM: Escherica coli
111 <400> SEQUENCE: 5
112 aaggaaaaaa gcggccgccg cccaatacgc aaaccg                                  36
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116 <211> LENGTH: 33
117 <212> TYPE: DNA
118 <213> ORGANISM: Escherica coli
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124 <210> SEQ ID NO: 7
125 <211> LENGTH: 39
126 <212> TYPE: DNA
127 <213> ORGANISM: Salmonella typhimurium
129 <400> SEQUENCE: 7
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134 <211> LENGTH: 35
135 <212> TYPE: DNA
136 <213> ORGANISM: Salmonella typhimurium
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139 ctagtctaga tgtgttaacc aataagaaca gtcta                                   35
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143 <211> LENGTH: 42
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151 <210> SEQ ID NO: 10
152 <211> LENGTH: 34
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156 <400> SEQUENCE: 10
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161 <211> LENGTH: 41
162 <212> TYPE: DNA
163 <213> ORGANISM: Salmonella typhimurium
165 <400> SEQUENCE: 11
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170 <211> LENGTH: 28
171 <212> TYPE: DNA
172 <213> ORGANISM: Salmonella typhimurium
174 <400> SEQUENCE: 12
175 ctagactagt tactacttat tatttacg                              28
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VERIFICATION SUMMARY   DATE: 10/17/2003
PATENT APPLICATION: **US/10/070,882A**   TIME: 16:45:42

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